Notebook, N-05-00-00.5

Experiments in Stereoscopic
Photography & Lantern Projection.

Made stereoscopic pairs of pictures
with an ordinary camera using
a board on tripod with a slide
giving 3" motion & used this
for ordinary views
For close pictures of small
objects kept the camera stationary
& rotated the object on a turntable
about 10° of the circle
Pairs made by both of these methods
showed good relief on a stereoscope.
Made slides of Lantern slides from
these negatives & projected on a
screen in almost exact register
& projecting one through a red glass
& the other through a green glass
& used spectacles colored glass
over the eyes used the green glass
over the left picture & left eye
& red over right picture & eye
found that the colors did not
balance at all the red although
too dull & the green pictures could
be seen through the red glass

SAFRANINE →

SAFRANINE →
by Methyl dye
J. A. Brett
1/16/1979

stronger than the red picture

Fixed out & washed a lot of old plates & stained with different strength of the following colours acid green, naphthol green, safranin, erythrosin after considerable experiment chose the following stains.

For the yellow projecting glass

acid green 3% 5 minutes

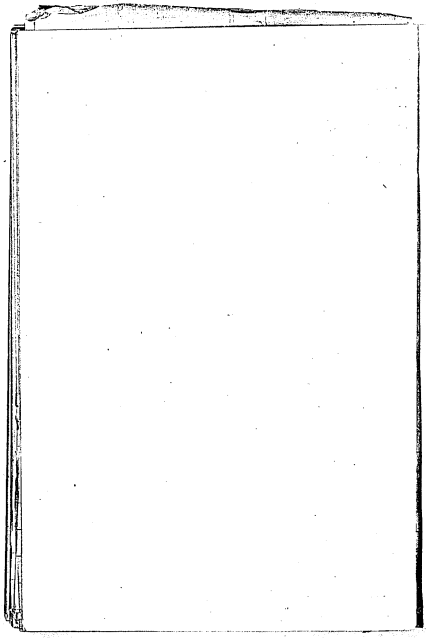
For the green spectacle glass.

acid green 1% 5 minutes

For the red glass both projecting & viewing

safranin ½ % 2 minutes

This combination made each eye see a different picture & picture only if the colours were used any lighter the other picture began to be slightly visible



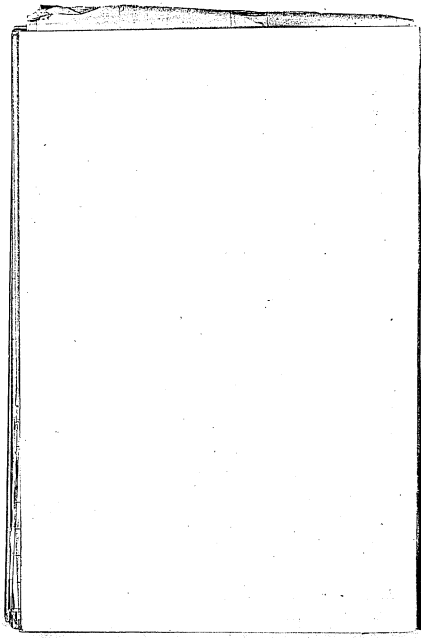
the sense of relief with this combination is excellent & the resultant picture partly white though the eyes change a little the picture is at times red or at times green.

Spectroscopic examination of the glasses.

Ordinary red glass passes red orange & a shade of yellow the red considerably dimmed

Ordinary green glass passes the green a little dimmed, mostly the yellow & at least extends at least half way into the red & also passes some distance into the blue

Erythrosine 1% stained 10 minutes passes the red full strength mostly the yellow completely blocks out the green except a very slight bluish green passes considerable blue & the extreme violet is almost untouched



Naphthol green 3% 540 minutes

all the colours passed are dulled quite a bit

Passes a narrow strip of red close to the yellow, passes yellow, green & so far into blue but all colours dull

Naphthol green 1% 5 minutes

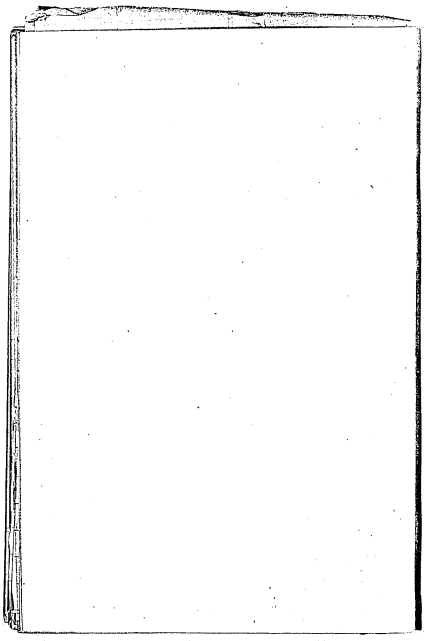
Throws the whole spectrum from dark blue to about half way through the red

Safranin ½% 10 minutes.

Passes the red & a little yellow up to the fainest suspicion of green the red is distinctly brighter than with ~~blue~~ red glass. Careful looking shows a dark band of very faint violet

Acid green 3% 10 minutes

Passes a dull narrow band in the green red cuts off all the light red orange & yellow passes the green to blue about half way into the violet



Spectrum of the colours used

the green progecting glass

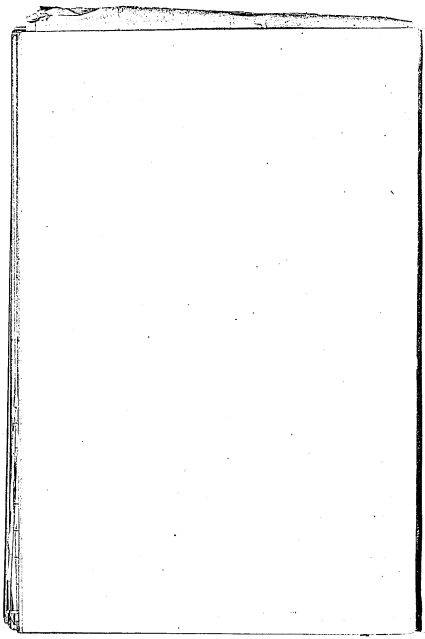
Acid green 3% 5 minutes

Passes a little violet the green blue almost unaltered some yellow & just a suggestion of orange then comes a perfectly black band in the red & a ~~bright~~ certain amount of light passed in the extreme red

The green spectacle glass.

Acid green 1% 5 minutes

Is similar to the last but the ~~green~~ green band is both a little broader & brighter the absorption band in the red is narrower but is still absolutely black the light on the green side of the black band shows a little more of the orange.



The red projection glass.

Toffpanin ½% 2 minutes

Passes the whole of the red & orange gradually widening out shows a band of the red end of the green then the green & blue are completely blocked out & a faint but very broad band shows in the middle